

AD-A105 610

NAVY EXPERIMENTAL DIVING UNIT PANAMA CITY FL

F/6 13/10

SALVAGE OF A USAF F-106 DELTA DART.(U)

JUL 81 C A KIDMAN, R A BORNHOLDT

UNCLASSIFIED

NEDU-5-81

NL

1. 1
2. 1
3. 1
4. 1
5. 1
6. 1
7. 1
8. 1
9. 1
10. 1
11. 1
12. 1
13. 1
14. 1
15. 1
16. 1
17. 1
18. 1
19. 1
20. 1
21. 1
22. 1
23. 1
24. 1
25. 1
26. 1
27. 1
28. 1
29. 1
30. 1
31. 1
32. 1
33. 1
34. 1
35. 1
36. 1
37. 1
38. 1
39. 1
40. 1
41. 1
42. 1
43. 1
44. 1
45. 1
46. 1
47. 1
48. 1
49. 1
50. 1
51. 1
52. 1
53. 1
54. 1
55. 1
56. 1
57. 1
58. 1
59. 1
60. 1
61. 1
62. 1
63. 1
64. 1
65. 1
66. 1
67. 1
68. 1
69. 1
70. 1
71. 1
72. 1
73. 1
74. 1
75. 1
76. 1
77. 1
78. 1
79. 1
80. 1
81. 1
82. 1
83. 1
84. 1
85. 1
86. 1
87. 1
88. 1
89. 1
90. 1
91. 1
92. 1
93. 1
94. 1
95. 1
96. 1
97. 1
98. 1
99. 1
100. 1



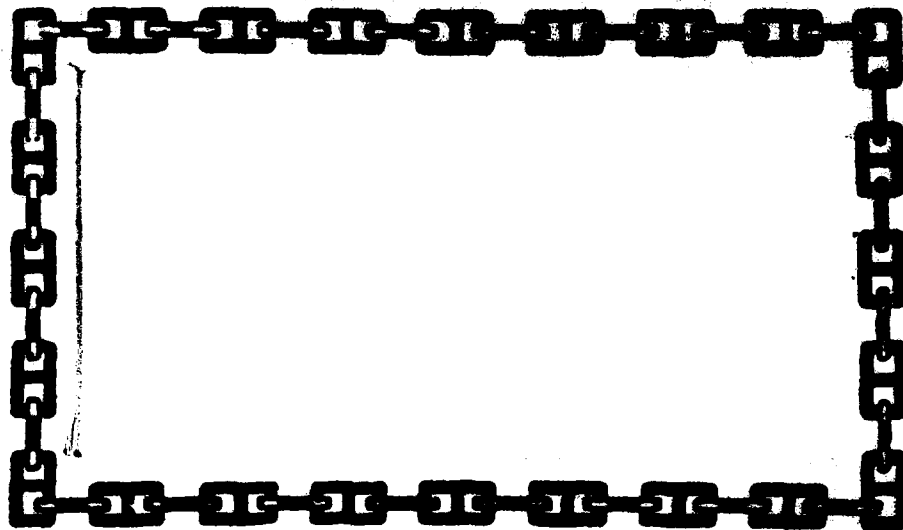
END
DATE
FILMED
1 8
DTIC

1
LEVEL II

6



ADA105610



NAVY EXPERIMENTAL DIVING UNIT

DTIC
ELECTE
S OCT 07 1981 **D**
E



This document has been approved
for public release and sale; its
distribution is unlimited.

81 10 7 206



DEPARTMENT OF THE NAVY
NAVY EXPERIMENTAL DIVING UNIT
PANAMA CITY, FLORIDA 32407

IN REPLY REFER TO:

(9) Final rpt.
(14) NED 11-5-81

NAVY EXPERIMENTAL DIVING UNIT

REPORT NO. 5-81

(6) SALVAGE OF A USAF F-106
DELTA DART.
(10) COLIN A. KIDMAN
R. A. BORNHOLDT
(11) JUL 1981
(12) 22

Submitted by:

CA Kidman

COLIN A. KIDMAN
CPO(D), RN
Master Diver

R. A. BORNHOLDT

CDR, USN
Commanding Officer

Approved by:

R. A. BORNHOLDT

CDR, USN
Commanding Officer

253650

UNCLASSIFIED

CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER NEDU REPORT 5-81	2. GOVT ACCESSION NO. AD-A105610	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) SALVAGE OF A USAF F-106 DELTA DART		5. TYPE OF REPORT & PERIOD COVERED FINAL
7. AUTHOR(s) COLIN A. KIDMAN R. A. BORNHOLDT		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE JULY 1981
		13. NUMBER OF PAGES 21
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. <input checked="" type="checkbox"/> ABSTRACT (Continue on reverse side if necessary and identify by block number) As formally requested by the U. S. Air Force and under the official direction of the Chief of Naval Operations, the Navy Experimental Diving Unit (NEDU) directed the search, location and recovery of an F-106 DELTA DART which had crashed into the Gulf of Mexico in 80 FSW. The operation covered a span of 20 days. NEDU was assisted in the salvage effort at various times by local units from the Navy Diving and Salvage Training Center and the Naval Coastal Systems Center. The assistance provided by		

DD FORM 1473 JAN 73

EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

the Air Force in the way of an 85 foot drone recovery boat and three divers greatly reduced the overall cost of the operation. The out of pocket expenses incurred by NEDU (\$15,000) included the purchase of braided nylon line and dive gear turned over to the Air Force to be used on future operations. Recycled air plane scrap metal recovered during the effort was estimated to be valued at in excess of \$40,000.

Table of Contents

	<u>Page</u>
Report Documentation Page.....	ii
Table of Contents.....	iii
Abstract.....	iv

Section

I. INTRODUCTION.....	1
II. NARRATIVE.....	1
III. MESSAGE TRAFFIC.....	7
IV. TOTAL NEDU EXPENDITURES.....	14
V. CHART OF SALVOPS SITE.....	15
VI. LESSONS LEARNED.....	16

Accession For	
NTIS GPO	X
DTIC TAB	
Unannounced	
Justification	
By	
Director	
Availability Codes	
Avail and/or	
Dist	Special
A	

Abstract

As formally requested by the U. S. Air Force and under the official direction of the Chief of Naval Operations, the Navy Experimental Diving Unit (NEDU) directed the search, location and recovery of an F-106 DELTA DART which had crashed into the Gulf of Mexico in 80 FSW. The operation covered a span of 20 days. NEDU was assisted in the salvage effort at various times by local units from the Navy Diving and Salvage Training Center and the Naval Coastal Systems Center. The assistance provided by the Air Force in the way of an 85 foot drone recovery boat and three divers greatly reduced the overall cost of the operation. The out of pocket expenses incurred by NEDU (\$15,000) included the purchase of braided nylon line and dive gear turned over to the Air Force to be used on future operations. Recycled air plane scrap metal recovered during the effort was estimated to be valued at in excess of \$40,000.

I. INTRODUCTION

Naval Sea Systems Command message 141703Z JUL 81 assigned Commanding Officer, Navy Experimental Diving Unit (NEDU) as the Officer-in-Charge of the search, location and recovery of a USAF F-106 DELTA DART which crashed at sea 6 miles south of Crooked Island Cut, Panama City, Florida.

II. NARRATIVE

A USAF F-106 DELTA DART from Tyndall Air Force Base, FL, crashed in the Gulf of Mexico 6 miles south of Crooked Island Cut, FL on 9 July 1981. The pilot ejected and was rescued safely. On 10 July 1981, the Air Force Accident Investigation Board requested the U.S. Navy to coordinate a USN/USAF effort to locate and salvage the wreckage.

The Commanding Officer of the Navy Experimental Diving Unit (NEDU), CDR R. A. Bornholdt, USN was designated as Officer-in-Charge of Salvage. CPO(MDV) C. A. Kidman, Royal Navy of NEDU was appointed On-scene Commander. On 10 July a search for wreckage was initiated, representatives from NEDU, Naval Coastal Systems Center(NCSC) and Tyndall Air Force Base took part using side-scan sonar. After 24 hours of searching, the Air Force Watercraft Branch located the crash site and marked the largest item of debris. The depth was reported to be 80 feet-of-seawater.

13 July 1981

0800: A 9-man Dive Team consisting of CPO(MDV) C.A. Kidman (NEDU), LtCdr D.J. Smith (NCSC), CE1(DV) M. Anderson (NEDU), EN2(DV) R. Cantrell (NEDU), HMCS(DV) C. Blair (NEDU), MM2(DV) C. Wentzel (NCSC), TSgt(DV) J. Craft (Tyndall AFB), SGT(DV) C. Norris (Tyndall AFB), SGT(DV) J. Molloy (Tyndall AFB) departed for the crash site on an Air Force Missile Recovery Craft.

1100: Dive Team arrived on site and set up SCUBA diving station.

1138: With the Missile Recovery Craft anchored over the wreckage site, diving commenced.

The first dive set descended on top of what was identified as the 7500 lb, J75 Pratt and Whitney engine. After an initial survey of the wreckage area, it was reported that upon impact with the water the F-106 had disintegrated into hundreds of small pieces and only the engine remained in recognizable form. Further dives were performed and recovery of the ACMI, 20 mm Gatling Gun and other small pieces accomplished.

1700: Diving operations were secured, and the Team returned to NEDU. The Naval Diving Salvage Training Center was requested to assist with the provision of their diving tender YDT-15 for the engine recovery.

14 July 1981

0700: Dive Team departed for crash site onboard YDT-15.

1000: Arrived on-site, and set up mooring of YDT-15 over engine.

1139: First dive set left the surface and commenced stropping engine. The engine was embedded in 6 feet of hard sand at approximately a 60° angle.

1300: Lifted engine onto deck of the YDT-15; commenced recovery of smaller hydraulic units.

1700: Diving operations secured. It was decided, due to the remaining wreckage being small pieces, that the Air Force Missile Recovery Craft would be used for all further salvage operations. A 6' x 6' x 4' salvage skip basket was designed and constructed by NEDU to assist in the recovery.

15 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site.

0925: Commenced diving operations; recovered 3 baskets of miscellaneous small wreckage, pumps, motors and burnt skin sections.

1500: Diving operations secured.

16 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site.

0953: Commenced diving operations; continued collecting small items of wreckage, searching specifically for motors and pumps as designated by the onboard accident investigation personnel.

1430: Diving operations secured.

17 July 1981

Air Force Accident Investigation Team reviews findings at Tyndall AFB.

20 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site.

1000: Commenced diving operations; recovered 2 baskets of wreckage.

1500: Diving operations secured.

21 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft. (Due to dive workups in the Ocean Simulation Facility for DEEP DIVE 81, the Dive Team on following days consisted of a 6-man team.)

0900: Arrived at crash site.

1000: Commenced diving operations; priority was to locate and recover the right wheel bay landing gear and associated pumps and equipment.

1600: Diving operations secured.

22 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site.

1030: Commenced diving operations specifically to recover electrical components and burnt skin sections.

1500: Diving operations secured.

23 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site.

1020: Commenced diving operations; conducted 150' circular searches around crash site. The remainder of the wreckage ascertained to be in a 200' radius area.

1530: Diving operations secured.

24 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site. Bad weather and heavy seas prevented safe recovery of the skip basket on deck so salvage operations were terminated for the day.

PM: Accident Investigation Board notified On-scene Commander that starboard landing gear actuators and associated equipment were required for detailed investigation.

28 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0915: Arrived at crash site.

1030: Commenced diving operations searching specifically for starboard actuators and aileron linkage.

1400: Diving operations secured; linkage parts and one actuator recovered.

29 July 1981

0700: Dive Team departed NEDU in Missile Recovery Craft.

0900: Arrived at crash site.

1030: Commenced diving operations; conducted thorough jackstay search through wreckage to locate specific small items of debris.

1430: Diving operations secured. Investigation Board assessed they have sufficient wreckage to determine the cause of the malfunction and crash.

The Air Force personnel were as follows:

1. The On-site Coordinator

SMSGT Phillip Fessenden
82nd Tactical Aerial Target Squadron
Tyndall AFB, Florida

2. Missile Recovery Craft

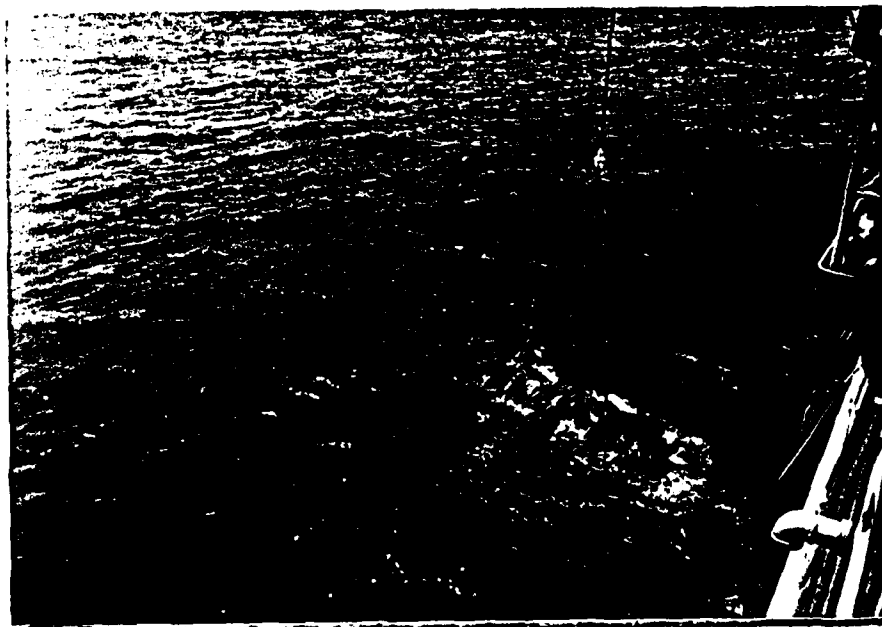
TSGT L. Rosenberger
SSGT W. Grimes
TSGT R. Basarich
TSGT G. Medlock
TSGT S. Diemer

Total Dives: 88

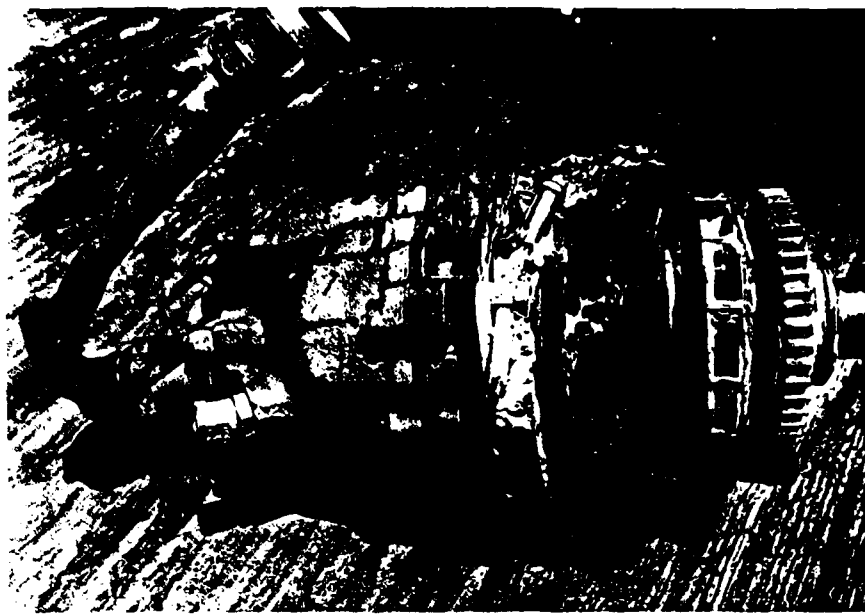
Total Bottom Time: 59 Hours



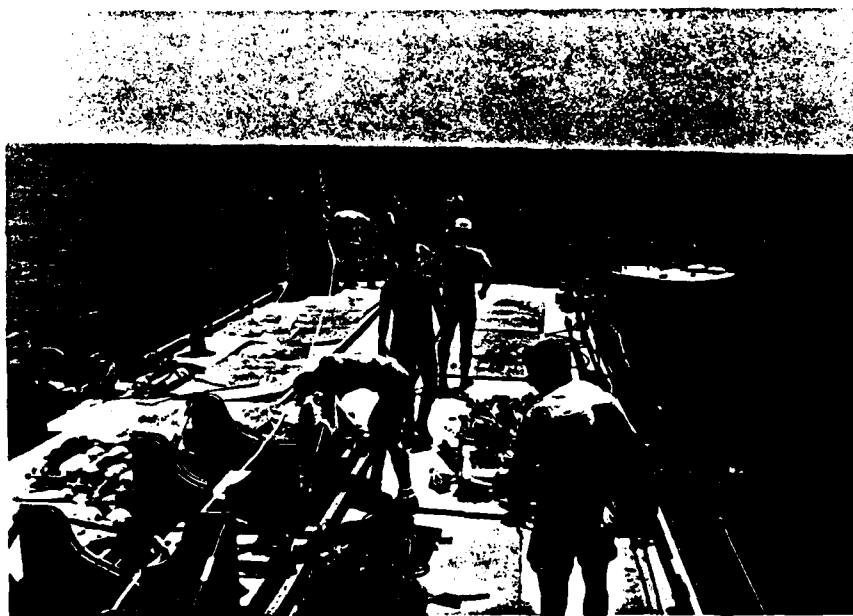
Dive Team: CPO(MDV) Kidman, MMCM(MDV) Yarley, HMCS(DV) Blair, EN2(DV) Cantrell, CE1(DV) Anderson, TSGT Craft, SGT Norris, and SGT Mollohan



Attaching steadying lines to the F-i06 Pratt and Witney engine (7500 lbs), prior to lifting on to YDT-15.



One of two emergency hydraulic pumps (secondary hydraulic system) found and recovered.



Recovery area on the USAF Missile Recovery Craft and NEDU 22' Diving Safety Boat.

III. MESSAGE TRAFFIC

NNNN

CZCGMA280

1 JUL 81 17 00z

PTTUZYUW RUCIPGA0760 1921630-UUUU--RUCLMGA.

ZNR UUUUU

P 111500Z JUL 81

FM 325FWW TYNDALL AFB FL//CC//

TO RUCIPBA/ADTAC LANGLEY AFB VA//CD/DO/DR/SE//

INFO RUENAAA/CNO WASHINGTON DC

RULSSAA/COM NAV SEA SYSCOM WASHINGTON DC//

RUEAHQA/CHIEF SEA NAV MAT WASHINGTON DC//

RUCLMGA//NCSC PANAMA CITY FL//

RULCRLA/NAVXDIVU PANAMA CITY FL//

RUCIPBA/HQ TAC LANGLEY AFB VA//SE//

AF-ACXJRF

BT

UNCLAS

SUBJ: SALVAGE ASSISTANCE, ACCIDENT INVESTIGATION

REF: TELCON L/C RHODES, 82 TATS/CC AND CMDR BORNHOLT EXPERIMENTAL DIVE UNIT (EDU)

1. REQUEST YOUR IMMEDIATE ACTION IN OBTAINING CNO, WASHINGTON DC APPROVAL FOR LOCAL NAVAL UNIT SUPPORT OF A WATER SALVAGE OPERATION AND RECOVERY OF A CRASHED F-106 AIRCRAFT AND COMPONENTS SEVEN MILES SOUTH OF TYNDALL AFB. WRECKAGE IS REQUIRED IN SUPPORT OF AIRCRAFT ACCIDENT INVESTIGATION.

PAGE 2 RUCIPGA0760 UNCLAS

2. PER REFERENCE CONVERSATION, LOCAL NAVY ASSETS ARE AVAILABLE TO SUPPORT THIS SALVAGE OPERATIONS. ACTIVITY WOULD BE IN COORDINATION WITH 82TATS WATERCRAFT RESOURCES.

3. 82 TATS WATERCRAFT DIVERS, WITH NAVY EQUIPMENT SUPPORT, LOCATED AND MARKED THE ENGINE IN 66 FEET OF WATER LATE 10 JUL 81. SONAR INDICATES OTHER COMPONENTS IN NEAR VICINITY AND EXPECT THEM TO BE LOCATED/MARKED ON 11 JUL 81.

4. TIME IS CRITICAL DUE TO OTHER COMMITMENTS OF THE EDU IN LATE JULY 81. RECOVERY OPERATIONS COULD BEGIN MONDAY 13 JUL 81 PROVIDED NAVY APPROVES EDU PARTICIPATION.

BT

#0760

COG: NEDU 710

INFO: 100 101 300 330 331 720
714 200

NNNNCZCMA358

PTAUZYUW RUCIPBA5191 1942158-UUUU--RUCLMGA.

ZNR UUUUU

P 131720Z JUL 81

FM ADTAC LANGLEY AFB VA//CD//

TO PUENAAA/CNO WASH DC//

RUCIPGA/325FWW TYNDALL AFB FL//CC//

RUCIPGA/HQ USAFADWC TYNDALL AFB FL//CC//

RULSSAA/COMNAVSEASYS COM WASH DC//

PUFAHQA/CHIEF SEA NAV MAT WASH DC//

RUCLMGA/NCSC PANAMA CITY FL//

RUCLMGA/NAVXDIVU PANAMA CITY FL//

ZEN/HQ TAC LANGLEY AFB VA//SE/AC//

BT

UNCLAS

SUBJ: SALVAGE ASSISTANCE, F-126 CLASS A MISHAP, 81-07-29, TYXALL AFB, FL

REF: 325 FWW MSG 111500Z JUL 81

1. REQUEST SALVAGE ASSISTANCE, AS REQUESTED IN REFERENCE MSG, BE PROVIDED. POC IS COL PERRY HUBBARD, GP 970-4556/4733.

2. REFER COSTS TO HQ USAFADWC/RM FOR FUNDING ARRANGEMENTS.

BT

#5191

ACT: NEDU 710

INFO: 100 101 300 330 331 714 720

NNNNCZCGMA453

PTTUZFDY RUENAAA5768 1951545 RUEB-UUUU--RUCLMGA.

PTTUZYUW RUENAAA5768 1951645-UUUU--RUCLYGA.

ZNP UUUUUU

P 141703Z JUL 81

FM CNO WASHINGTON DC

TO RUSSAA/CHNAVMAT WASHINGTON DC

INFO RUERSAA/CINCLANTFLT NORFOLK VA

RUERSAA/COMNAVSURFLANT NORFOLK VA

RULYFPA/COMSERVGRU TWO

RULYLVA/CONSERVGRU EIGHT

RULSSAA/COMNAVSEASYSOCC WASHINGTON DC

RULYLVA/COMEDGRU TWO FT STORY VA

RUCIPBA/ADTAC LANGLEY AFB VA//CD//

RUCIPBA/325FWW TYNDALL AFB FL//CC//

RUCIPBA/HQ TAC LANGLEY AFB VA//SE/AC//

RUMJABA/AFISC NORTON AFB CA//SEP//

RUCLMGA/NAVXDIVINGU PANAMA CITY FL

RUCLMGA/NAVCOASTSYSOCC PANAMA CITY FL

RUCLMGA/NAVDIVESALVTRACEN PANAMA CITY FL

RULYLVA/HCU TWO

BT

UNCLAS //N2A742//

SUBJ: SALVAGE ASSISTANCE FOR USAF F-126 RECOVERY

COG: NEDU 710 NDSTC
INFO: 100 101 300 330 331 714 720

PAGE 02 RUENAAA5768 UNCLAS

A. 325FWW TYNDALL AFB FL//CC// 111500Z JUL 81 NOTAL

B. ADTAC LANGLEY AFB VA//CD// 131700Z JUL 81 NOTAL

C. PHONCON CNO, OP-642 (CDR WEST)/NAVSEA, OOC (CDR MACYLIN) OF
13 JUL 81

D. OPNAVINST 4740.2D

E. PHONCON CNO, OP-642 (CDR WEST)/CLF (CDR SMITH)/CNSL (LCDR
SCHULER) OF 13 JUL 81

1. REFS A AND B REQUEST U.S. NAVY ASSISTANCE IN RECOVERY OF
F-126 AIRCRAFT SEVEN MILES SOUTH TYNDALL AFB. FUNDING TO BE
PROVIDED BY HQ USAFADWC/RM.

2. REF C INDICATES U.S. NAVY ASSISTANCE AVAILABLE AT EDU
PANAMA CITY. REQ TAKE FORAC: DIRLAUTH ALCON.

3. REF D PERTAINS. CINCLANTFLT/COMNAVSURFLANT CONCUR, REF E.

BT

#5763

NNNN

5 JUL 81 06z

CZCGMA588
PTTUZYUW RULSSGG6360 1962043-UUUU--RUCLMGA.
ZNR UUUUU
P 151914Z JUL 81
FM COMNAVSEASYS COM WASHINGTON DC
TO RUCLMGA/NAVXDIVINGU PANAMA CITY FL
INFO RUENAAA/CNO WASHINGTON DC
ZEN/CHNAVMAI WASHINGTON DC
RUCBSAA/CINCLANTFLT NORFOLK VA
RUCBSAA/COMNAVSURFLANT NORFOLK VA
RULYEPA/COMSERVGRU TWO
RULYLKA/COMSERVRON EIGHT
RULYLKA/COMEDGRU TWO FT STORY VA
RUCIPBA/ADTAC LANGLEY AFB VA//CD//
RUCIPGA/325FWW TYNDALL AFB FL//CG//
RUCIPBA/HQ IAC LANGLEY AFB VA//SE/AC//
RUWJABA/AFISC NORTON AFB CA//SEP//
RUCLMGA/NAVCOASTSYSCEN PANAMA CITY FL
RUCLMGA/NAVDIVESALVTRACEN PANAMA CITY FL
RULYLKA/HCU TWO
BT
UNCLAS //N04740//
SUBJ: SALVAGE ASSISTANCE FOR USAF F-106

ACT: NEDU
COG: 710 NDSTC
INFO: 100 101 300 330 331 714 720

PAGE 02 RULSSGG6360 UNCLAS

A. CNO WASHINGTON DC 141703Z JUL 81

1. ORIG TAKES REF A FORAC.

2. REQUEST NAVXDIVINGU TAKE REF A FORAC. DIRLAUTH ALCON. OBTAIN FUNDING DIRECT FM HQ USAFADWC/EM.

3. REQ INCLUDE ALCON AS ADDEES ON SITREPS.

BT

#6360

00001 06 032

VZCZCMGA979

RTTUZYUW RUCLMGA0116 1992021-UUUU--RULSSAA RUENAAA RUCBSAA RULYEPA
RULYLKA RUCIPBA RUCIPGA RUWJABA RHHMDC.

ZNR UUUUU

R 180001Z JUL 81

FM NAVXDIVINGU PANAMA CITY FL

TO RULSSAA/COMNAVSEASYS COM WASHINGTON DC

INFO RUENAAA/CNO WASHINGTON DC

RULSSAA/CHNAVMAT WASHINGTON DC

RUCBSAA/CINCLANTFLT NORFOLK VA

RUCBSAA/COMNAVSURFLANT NORFOLK VA

RULYEPA/COMSERVGRU TWO

RULYLKA/COMSERVRON EIGHT

RULYLKA/COMEDGRU TWO FT STORY VA

RUCIPBA/ADTAC LANGLEY AFB VA //CD//

RUCIPGA/325FWW TYNDALL AFB FL //CC//

RUCIPBA/HQ TAC LANGLEY AFB VA //SE/AC//

RUWJABA/AFISC NORTON AFB CA //SEP//

ZEN/NAVCOASTSYS CEN PANAMA CITY FL

ZEN/NAVDIVESALVTRACEN PANAMA CITY FL

RULYLKA/HCU TWO

RHHMDC/HCU ONE

RHHMDC/COMSERVRON FIVE

BT

UNCLAS //NO4740//

SUPJ: SALVAGE ASSISTANCE FOR USAF F-126

A. COMNAVSEASYS COM WASHINGTON DC 151914Z JUL 81 (NOTAL)

SITREP ONE

1. AS DIRECTED REF A LOCATED PLANE SALVAGED SAME.

2. DETAILS TO FOLLOW.

BT

#0116

ORIG: NEDU

COG: 710 NDSTC

INFO: 100 101 300 330 331 714 720

NNNN

11 JUL 81 23 27z

VZCZCNGA022

RTTUZYUW RUCLNGA2293 202204-UUUU--RULGSUU.

ZNR UUUUU

R 212204Z JUL 81

FM NAVXDIVINGU PANAMA CITY FL

TO COMNAVSEASYS COM WASHINGTON DC

INFO CNO WASHINGTON DC

CHNAVMAW WASHINGTON DC

CINCLANTFLT NORFOLK VA

COMNAVSURFLANT NORFOLK VA

CONSERVGRU TWO

COMSERVRON EIGHT

COMEDGRU TWO FT STORY VA

ADTAC LANGLEY AFB VA

325FWW TYNDALL AFB FL

HQ TAC LANGLEY AFB VA

AFISC NORTON AFB CA

ZEN/NAVCOASTSYSCEN PANAMA CITY FL

ZEN/NAVDIVESALVTRACEN PANAMA CITY FL

HCU TWO

HCU ONE

COMSERVRON FIVE

BT

UNCLAS //N04742//

SUBJ: SALVAGE ASSISTANCE FOR USAF F-106

SITREP TWO

1. 9 JULY - F-106 CRASHED INTO GULF OF MEXICO

10 JULY - F-106 LOCATED 73 FSW LAT 29-58.0 N 85-37.3 W

10-12 JULY - DISCUSSIONS WITH AIR FORCE ON FORMAL REQUEST FOR ASSISTANCE.

13 JULY - DIVE TEAM ON 85 FT AF BOAT RECOVERED ACMI POD, 20MM GUN, MISC SMALL PCS

14 JULY - YDT 15 FROM NDSTC AND DIVE TEAM RECOVERED ENGINE, WING PCS, MISC SMALL PCS

15 JULY - DIVE TEAM IN 85 FT AF BOAT RECOVERED 3 SKIP BOXES FULL OF MISC SMALL WRECKAGE, PUMPS, SMALL PCS OF AIRCRAFT SKIN, MOTORS, ETC.

16 JULY - SAME AS 15 JULY

17-19 JULY - AF ACCIDENT TEAM REVIEW FINDINGS

20 JULY - DIVE TEAM IN 85 FT AF BOAT RECOVERED 2 LARGE SKIP BOXES FULL OF SMALL PCS

21 JULY - BAD WEATHER. AF ACCIDENT TEAM REVIEWING FINDINGS

2. COST TO DATE 15K DOLLARS. WILL CONTINUE TO SUPPORT EFFORT WITH AVAILABLE ASSETS AS REQUIRED.

BT

#2293

ORIG: NEDU

COG: NDSTC 710

INFO: 100 101 300 330 331 720 714

B

VZCZCKSA282

RTTUZYUW RUCLMGA2923 2051851-UUUU--RULSSAA RUENAAA RUOBSAA RULYEP
RULYLKA RUCIPBA RUCIPGA RUWJABA RHHMDC.

ZNR UUUUU

R 241851Z JUL 81

FM NAVXDIVINGU PANAMA CITY FL

RULSSAA/COMNAVSEASYS COM WASHINGTON DC

INFO RUENAAA/CNO WASHINGTON DC

ORIG: NEDU

RULSSAA/CHNAVMAW WASHINGTON DC

COG: NDSTC 710

RUOBSAA/CINCLANTFLT NORFOLK VA

INFO: 100 101 300 330 331 720 714

RUOBSAA/COMNAVSURFLANT NORFOLK VA

RULYEP/COMSERVGRU TWO

RULYLKA/COMSEAVRON EIGHT

RULYLKA/COMEDDGRU TWO FT STORY VA

RUCIPBA/ADTAC LANGLEY AFB VA//CD//

RUCIPGA/325FW TYNDALL AFB FL//CC//

RUCIPBA/HQ TAC LANGLEY AFB VA//SE//AC//

RUWJABA/AFISC NORTON AFB CA//SEP//

ZEN/NAVCOASTSYS COM PANAMA CITY FL

ZEN/NAVDIVESALVTACEN PANAMA CITY FL

RULYLKA/HCU TWO

RHHMDC/HCU ONE

RHHMDC/COMSEAVRON FIVE

BT

UNCLAS //NO4742//

SUBJ: SALVAGE ASSISTANCE FOR USAF F-106

SITREP THREE

1. 22 JUL - GOOD WEATHER. DIVE TEAM IN USAF 85 FT BOAT
RECOVERED 2 ADDITIONAL LARGE SKIP BOXES FULL OF SMALL MISC
A/C WRECKAGE.

2. 23 JUL - GOOD WEATHER PREVAILS. DIVE TEAM IN USAF 85 FT
BOAT RECOVERED VARIOUS LANDING GEAR DOOR HYDRAULIC ACTUATORS
AND OVER-CENTER LOCK COMPONENTS AS REQ BY ACCIDENT INVESTIGATORS.
SEARCH TO CONTINUE FOR LIKE PIECES AS CONSIDERED GERMANE TO
CRASH INCIDENT.

BT

#2923

NNNN

IV. TOTAL NEDU EXPENDITURES

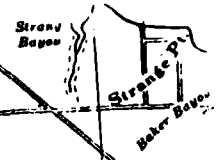
1. Boat fuel/oil NEDU 22 ft dive boat used as safety boat	\$ 1,250.00
2. Diving Tender YDT-15 10 ton boom (1 day)	950.00
3. NCSC (civilian photographer one day on-site)	70.00
4. Diving equipment, coveralls, coral boots provided to Air Force	750.00
5. Trim, tilt, engine repairs to NEDU 22 ft boat	525.00
6. Renewal of lift wire	2,500.00
7. Diving equipment	498.60
8. Construction of skip baskets	1,250.00
9. Nylon line 3/4"	563.66
10. Nylon line 1" (braided) - delivered to Air Force	1,067.16
11. Nylon line 5/8"	447.59
12. Nylon line 1/4"	108.99
13. Repair of damaged transom to NEDU 22 ft boat	3,000.00
14. Work shop facilities	1,005.00
15. Boat fuel (for side scan operations)	514.00
16. Miscellaneous shackles, wire straps, buoys, small stuff, gloves, coveralls, blocks	500.00
Total	<hr/> \$15,000.00

NOTE: For SUPSAL New York - \$15,000 Air Force funding via NAS received in advance.

V. CHART OF SAEVOPS SITE

NOTE C

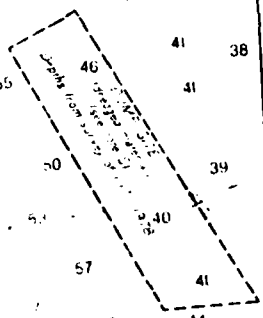
St. Andrew Bay East Entrance
Channel is constantly shifting
Use new channel 7 miles N. W.



ACTUAL CRASH SITE

ACTUAL DEPTH 72FSW

Obsr
Fish Haven
(auth min depth 40 ft)



VI. LESSONS LEARNED

1. For the second time in less than a year, NEDU has salvaged a Tyndall AFB Weapons Center Aircraft from the Gulf of Mexico. Utilization of local cooperative military assets for operations of this nature is proving to be most cost effective. Additionally, it is consistent with NEDU's mission to provide a quick response fly-away diving and salvage organization.
2. The professional and responsive participation of the Navy-trained Air Force divers and the Missile Recovery Craft crew contributed measurably to the overall success and effectiveness of the salvage.
3. Initial investigations by the Accident Investigation Board suggest the cause of the crash was attributable to a fire in the starboard wheel bay, which ruptured control surface linkages rendering the aircraft uncontrollable.